

This listing of claims will replace all prior versions, and listings, of claims in the application:

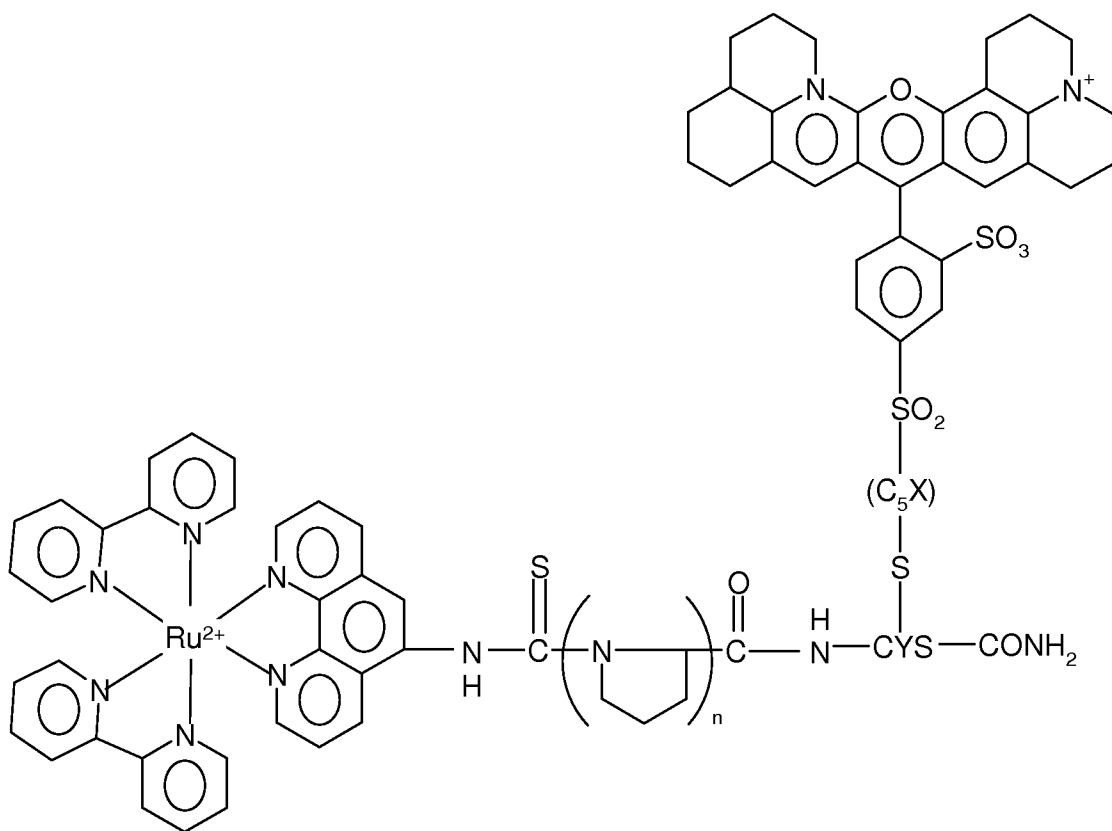
Listing of Claims:

1. (Currently Amended) A luminophore comprising a donor portion (D) in close association with an acceptor portion (A) sufficient for resonant energy transfer therebetween, wherein upon excitation by external electromagnetic radiation of a wavelength shorter than λ_1 , said luminophore emits luminophore radiation in the range of about 450 to about 1200 nm of a wavelength longer than λ_1 , with an emission lifetime t_1 and a quantum yield Q_1 ,

wherein when D is not in said close association with A, it absorbs radiation of a wavelength λ_2 shorter than λ_1 and thereafter emits radiation with a quantum yield Q_2 less than about 0.2,

wherein when said donor portion is in said close association with A and is excited by electromagnetic radiation of wavelength shorter than λ_1 , it resonantly transfers energy to said acceptor portion A which then resonantly emits radiation of a wavelength longer than λ_1 with said emission lifetime t_1 and quantum yield Q_1 , which is substantially greater than Q_2 ,

wherein said luminophore is a chemical compound, wherein D is covalently linked to A, and has the formula: ~~of Figure 1.~~



wherein $C_5X = \text{—NH—(CH}_2\text{)}_5\text{—NH—C(=O)—CH}_2\text{—Ru—(pro)}_n\text{—cys—TR,}$
 $n = 6 \text{ or } 8,$ and TR = Texas Red.

2-19. (Canceled)